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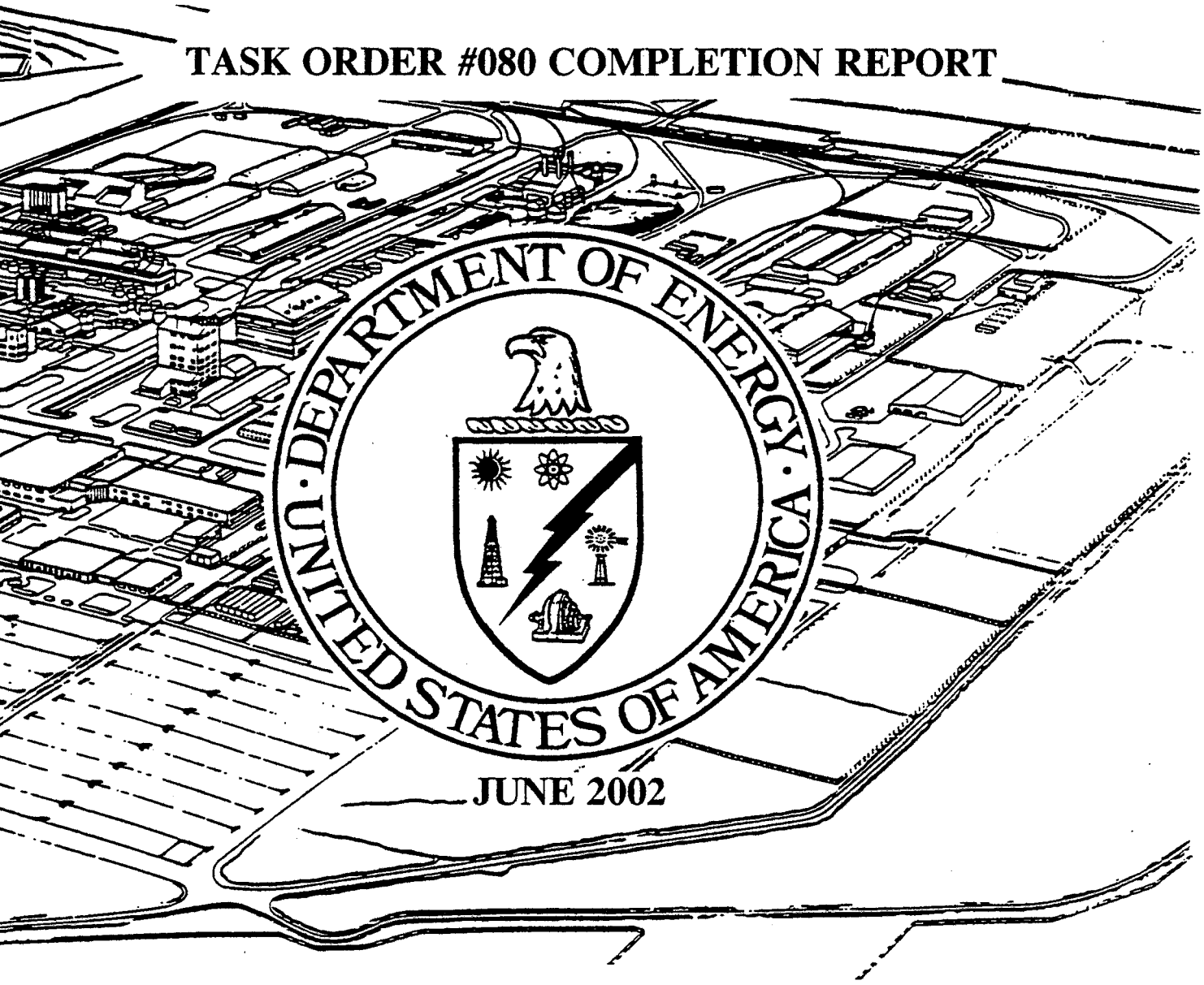
OPERABLE UNIT 3

MISCELLANEOUS SMALL STRUCTURES DECONTAMINATION AND DISMANTLEMENT PROJECT

TASK ORDER #080 COMPLETION REPORT



JUNE 2002

FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
FERNALD, OHIO

U.S. DEPARTMENT OF ENERGY
FERNALD AREA OFFICE

DOCUMENT CONTROL NO. 1751-RP-0009 (REV. 0)

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MISCELLANEOUS SMALL STRUCTURES DECONTAMINATION AND DISMANTLEMENT PROJECT TASK ORDER #080 COMPLETION REPORT

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1.0 INTRODUCTION

Task Order #080 was implemented under the authority of the Miscellaneous Small Structures (MSS) Implementation Plan for Above-Grade Decontamination and Dismantlement (D&D) (DOE 1998) and the Task Order implementation schedule provided to the regulatory agencies on March 27, 2002. Task Order #080 included D&D of the following component:

- Component 18M – High Nitrate Storage Tank

Remediation of Component 18M was performed successfully and in accordance with approved project planning and design requirements. This Task Order Completion Report summarizes remediation activities for Component 18M performed during the spring of 2002. A final Project Completion Report for the MSS Project will include summaries of this Task Order and other Task Orders implemented under the MSS Project following completion of the overall MSS Project.

2.0 COMPONENT-SPECIFIC REMEDIATION SUMMARY

Preparatory actions for Component 18M included removal of the UNH process filtrate residue by the Aquifer Restoration Group and utility disconnections by Facilities Shutdown.

A chronology of the D&D field activities under Task Order #080 is provided in Table 2-1.

TABLE 2-1 Task Order #080 D&D Chronology

Component	Field Initiation	Field Completion
Dismantle High Nitrate Storage Tank (18M)	5/2/02	5/7/02
Other Activities	**Start**	**Finish**
Begin Field Work (Demolition of Concrete Berm)	4/24/02	--
Removal of Associated Piping	--	5/10/02
Debris Size Reduction and Containerization	--	5/15/02
Break up Remaining Pad	--	5/21/02

2.1 Component 18M – High Nitrate Storage Tank

Component 18M was a 500,000 gallon vertical steel tank measuring 60 feet in diameter. The tank rested on a poured concrete diked pad measuring 112 feet in diameter. Component 18M was located in the radiologically controlled area just south of the 22E Trench and west of the Haul Road.

Lockdown was applied to the tank interior surface prior to the start of demolition.

There was no asbestos containing material present in Component 18M or its associated piping/pumps.

Hydraulic shears were used to dismantle and size-reduce the tank and associated piping/pumps.

3.0 MATERIAL MANAGEMENT

A summary of debris/waste generation from Component 18M remediated under Task Order #080 is summarized in Table 3-1.

TABLE 3-1 Summary of Debris/Waste Generated

Debris Category & Description	Profile/ Inventory Nos.	Volume (yd^3)	Container/ Quantity	Current Storage Location	Final Disposition
Cat. A, B & D (Commingled Metal)	92101	26	ROB[a] (1)	Already placed in the OSDF	OSDF
Cat. I-4 (Wood)	94005	26	ROB (1)	OSDF Transfer Area for Future OSDF Placement	OSDF
Cat. E Concrete	922007	105	ROB (7)	North Bulk Debris Staging Area for Future OSDF Placement	OSDF
Cat. B Metal	922844	257	ROB (9)	Already placed in the OSDF	OSDF

Footnote:
(a) ROB: Roll-off Box.

4.0 LESSONS LEARNED

Implementation of Task Order #080 revealed one lessons-learned for D&D Project Management. The following list identifies item(s) that will be considered prior to implementing the next Task Order under the MSS Project, while also providing potential process improvements for larger scale D&D projects at the FEMP:

- Use of a shear head with two movable jaws proved useful for the thin wall tank. The shear head did not jam, eliminating delays.

5.0 REFERENCES

U.S. Department of Energy, 1998, *Operable Unit 3 Integrated Remedial Action Miscellaneous Small Structures Implementation Plan for Above-Grade Decontamination and Dismantlement*, Final, prepared by Fluor Daniel Fernald, Cincinnati, Ohio.